Warm Up Solve and check the equation shown below 5(3+k)=45Solve 5(3+k)=45

Simplifying Expressions w/ Like-Terms

With a partner or a small group, complete the section below...

		[
What makes like-terms?	Create some like-terms for each	Practice combining the like-
	expression below.	terms.
exact Same	a) ⁻⁴ xy 7xu	$\frac{2y-4y+3z+17y}{}$
variable(s)		2x+13y+3z
w/ exact	b) 2z ³	$(x^2 + 4x - 2 + 3x - 5x) - 10$
Scime exponent	3z 1224;3	-4x2+7x-12
	$c)^{-3x}$	$c_{1} = -2ab + 4a - 7b = 5ab$
	/X 7/	4a-76-7ab
	Lotive -	-7ab+4a-7b
\sim	mountative	

Solving Equations that require Combining Like-Terms



...now if our equations have like-terms...

$$2x + 3 - 4x - 9 = -62$$

$$-2x - 6 = -62$$

$$+6 = +6$$

$$-2x - 56$$

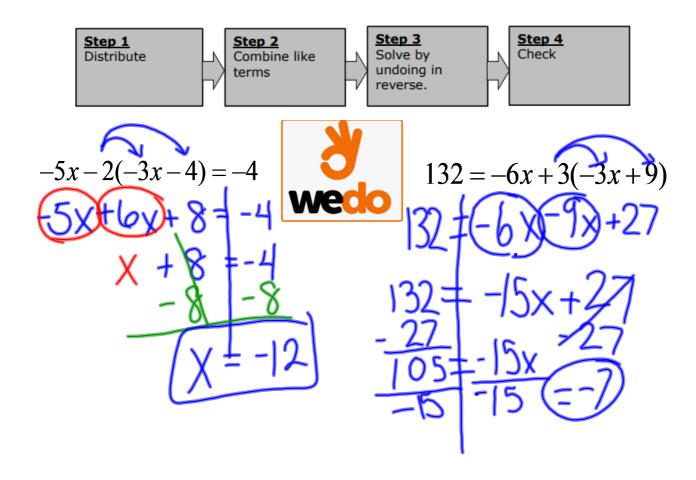
$$x = 2x$$

- rearrange to group like-terms
 (commutative property)
- 2. combine like-terms
- 3. solve like a two-step equation





$$3x - 4 - 5x + 7 = 17$$





We/You Do

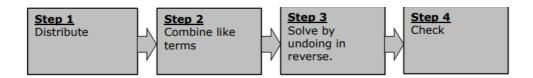


$$10x - 6(2x + 5) = 20$$

$$\frac{1}{2}(10x-2)+3x=-25$$

Translate, then solve:

"Five times the difference of twice a number and three, decreased by the sum of the number and eight, equals 13"



HOMEWORK!!! Solve and check each equation below.

1)
$$-12 = 3x - 2(3x + 15)$$

$$-4x + 5(-4x + 13) = -175$$